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GmbH, Weisshausstr. 2, 52066 Aachen (DE). WENDT,
Matthias [DE/DE]; c/o Philips Intellectual Property &
Standards GmbH, Weisshausstr. 2, 52066 Aachen (DE).

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(74) Agent: **VOLMER, Georg**; Philips Intellectual Property &
Standards GmbH, Weisshausstr. 2, 52066 Aachen (DE).

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(71) Applicant (*for DE only*): **PHILIPS INTELLECTUAL
PROPERTY & STANDARDS GMBH** [DE/DE]; Stein-
damm 94, 20099 Hamburg (DE).

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(71) Applicant (*for all designated States except DE, US*):
KONINKLIJKE PHILIPS ELECTRONICS N. V.
[NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven
(NL).

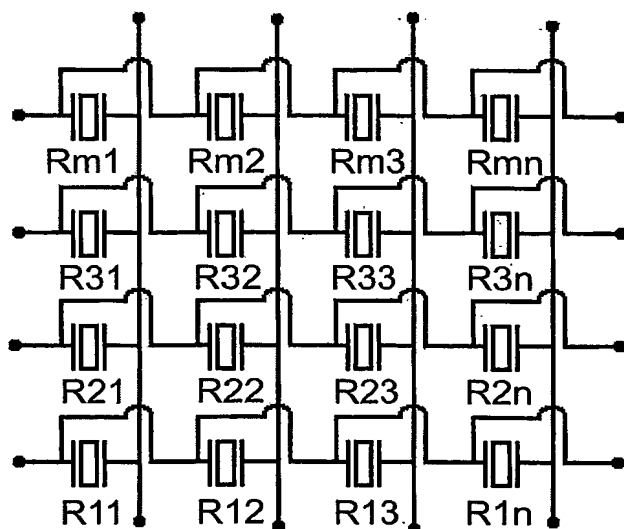
(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **LOEBL, Hans-Pe-**
ter [DE/DE]; c/o Philips Intellectual Property & Standards

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(54) Title: BULK ACOUSTIC WAVE SENSOR



(57) Abstract: The invention describes a sensor comprising a substrate 1 and at least one resonator, said resonator is comprised of an acoustic reflector 2, a piezoelectric layer 5, a first and a second electrode 3, 4 placed on the same side of the piezoelectric layer 5, and a sensing layer 6. The sensing layer reacts with a chemical or biological agent by absorption, adsorption, desorption or chemical reaction. As a result the individual frequency of a resonator changes and conclusions about the agent can be drawn. Such sensor is very sensitive to an agent being sensed, especially when used in liquids.

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